

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
3. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.
4. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE CITY OF SAN DIEGO MUNICIPAL CODE AND STORM WATER STANDARDS MANUAL.
5. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT- ISSUING AUTHORITY.
6. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION (858) 627-3200.
7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR.
8. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.
9. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.

GROUND WATER DISCHARGE

1. ALL GROUND WATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SURFACE WATER NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF SATE ORDER NO R9-2009-0002 NPDES CAG919002.
2. THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.
3. ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2007-0034 NPDES NO. CAG919001.

SHEET INDEX

TITLE SHEET	SHEET 1
MAINTENANCE PLAN	SHEET 2
MAINTENANCE METHODOLOGIES AND BMP NOTES	SHEET 3
MASTER MAINTENANCE PROGRAM (MMP) PROTOCOL REQUIREMENTS AND PEIR ENVIRONMENTAL MITIGATION MEASURES	SHEET 4

REFERENCE DRAWINGS

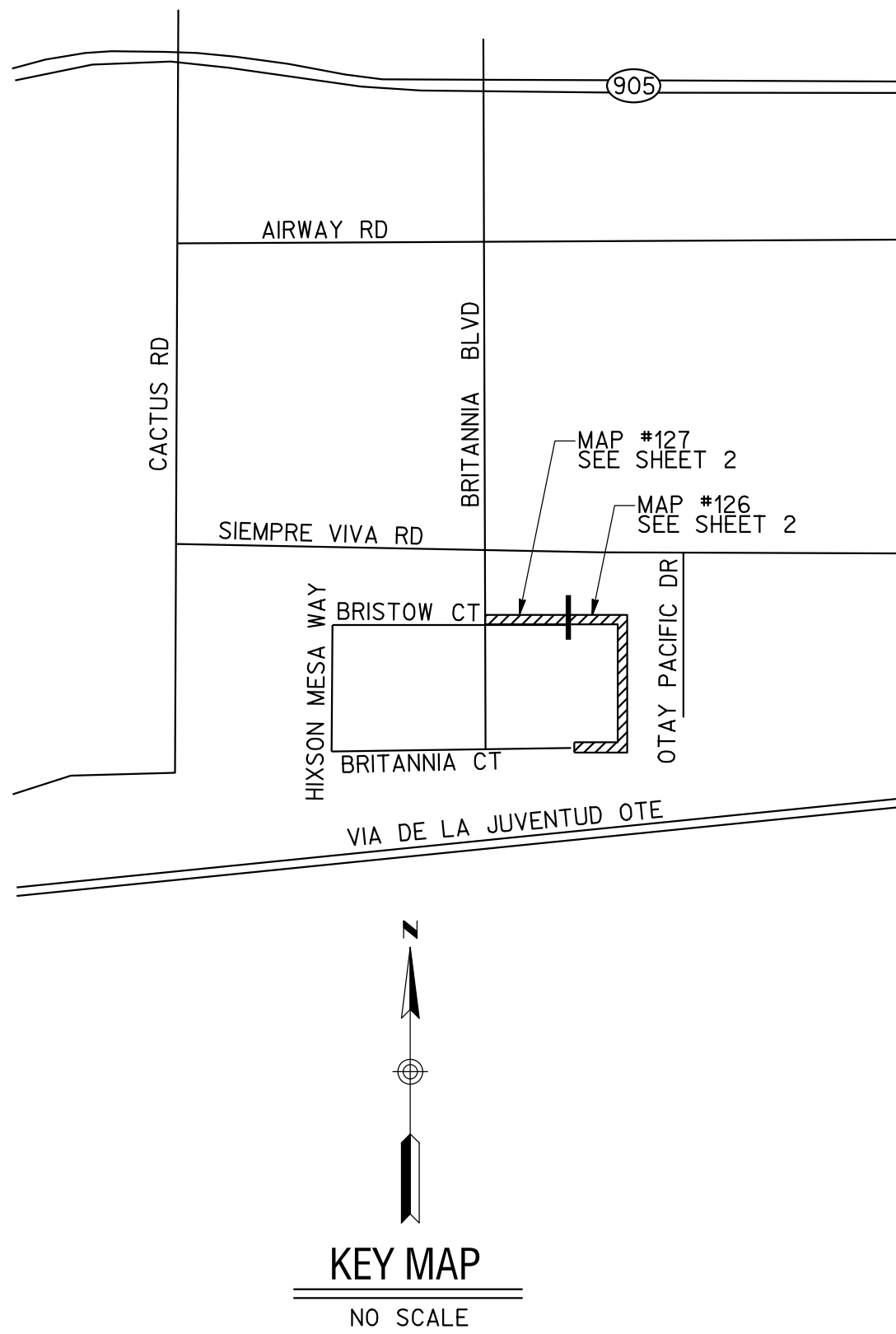
PLANS FOR THE IMPROVEMENT OF BRITANNIA COMMERCE CENTER CITY OF SAN DIEGO DWG NO. 22611-D

MASS GRADING PLANS FOR MARTINEZ RANCH BUSINESS PARK CITY OF SAN DIEGO DWG NO. 33501-D

PUBLIC STORM DRAIN PLAN AND PROFILE FOR BRITANNIA CORPORATE CENTER CITY OF SAN DIEGO DWG NO. 31066-7-D

MAINTENANCE PLANS FOR:

SIEMPRE VIVA AND BRISTOW CREEK CHANNEL MMP MAP#126 & 127



TOPOGRAPHY SOURCE

CITY OF SAN DIEGO SANGIS 2014 2 FOOT CONTOURS, NAVD88

BENCHMARK

US NAVY PROPERTY COR. MON. SW. OF INTERSECTION OTAY MESA & HERITAGE ROAD AT COR. CHAIN LINK FENCE ELEV. 504.644 M.S.L.

THE NORTHEAST BRASS PLUG LOCATED IN THE TOP OF CURB AT THE INTERSECTION OF AIRWAY ROAD AND BRITANNIA BOULEVARD ELEV. 498.428 NGVD29

STORM WATER PROTECTION NOTES

1. THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R920070001; AND RISK LEVEL/TYPE: CHECK ONE BELOW
- ☒ WPCP
- ☐ CGP RISK LEVEL 1 ☐ CGP LUP TYPE 1
- ☐ CGP RISK LEVEL 2 ☐ CGP LUP TYPE 2
- ☐ CGP RISK LEVEL 3 ☐ CGP LUP TYPE 3
2. WQID NO: NOT APPLICABLE
3. CHECK ONE
- ☐ THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT, THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED.
- ☐ THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES PER PHASE.
- ☒ NOT APPLICABLE
4. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP OR SWPPP AS APPLICABLE.
5. WATERSHED: TUJANA
6. HYDROLOGIC SUB AREA NAME: TUJANA VALLEY
7. HYDROLOGIC SUB AREA NUMBER: 911.12

WATER POLLUTION CONTROL PLAN FOR SIEMPRE VIVA AND BRISTOW CREEK CHANNEL MAINTENANCE PROJECT PREPARED BY:

McGRATH CONSULTING

PO BOX 2488

EL CAJON, CA. 92021

(619) 443-3811

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

CARSON P. EDGINGTON R.C.E. NO. 76519 DATE



5620 FRIARS ROAD  
SAN DIEGO, CA 92110  
619-291-0707  
(FAX) 619-291-4165

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

MAINTENANCE OF EARTHENED CHANNELS TO REMOVE ACCUMULATED SEDIMENT, VEGETATION AND OTHER DEBRIS

STANDARD SPECIFICATIONS:

DOCUMENT NO.  
PITS070112-01

PITS070112-02

PITS070112-04

PITS070112-06

STANDARD DRAWINGS

DOCUMENT NO.  
PITS070112-03

PITS070112-05

CASQA MANUAL

DESCRIPTION

STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2012 EDITION

CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2012 EDITION

CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2012 EDITION

CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECIFICATIONS, 2010 EDITION

DESCRIPTION

CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION

CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2010 EDITION

CALIFORNIA STORMWATER QUALITY ASSOCIATION, STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK PORTAL: CONSTRUCTION, JANUARY 2015

LEGEND

EXISTING IMPROVEMENTS

ITEM	SYMBOL
EXIST. CONTOURS	---
EXIST. LOT LINE	---
EXIST. CURB INLET	□
EXIST. STORM DRAIN MAIN	SD
EXIST. SEWER MAIN	S
EXIST. WATER MAIN	W
CHANNEL MAINTENANCE AREA	---
ACCESS & LOADING AREA	---
STAGING AREA	---

STORM WATER MANAGEMENT BMPs

ITEM	SYMBOL
STREET SWEEPING AND VACUUMING DAILY	SE-7
SANDBAG BARRIER	SE-8
STORM DRAIN INLET PROTECTION	SE-10
SCHEDULING	EC-1
PRESERVE EXISTING VEGETATION	EC-2
GRAVEL OR SAND BAG BARRIERS	SE-6 SE-8
FIBER ROLLS OR STRAW WATTLES	SE-5
DIVERT RUN-ON FROM SURROUNDING AREAS	EC-9 SE-5 SE-6 SE-13
CHECK DAMS	SE-4
SOIL PREVENTION AND CONTROL	WM-4
SOIL WASTE MANAGEMENT	WM-5
LIQUID WASTE MANAGEMENT	WM-10
SANITARY WASTE MANAGEMENT	WM-9
STOCKPILED WASTE MANAGEMENT	WM-3
MATERIAL STORAGE	WM-1
MATERIAL HANDLING	WM-2
VEHICLE AND EQUIPMENT FUELING	NS-9
ILLICIT CONNECTION / DISCHARGE CONTROL	NS-6
WATER CONSERVATION PRACTICE	NS-1
DEWATERING OPERATIONS	NS-2
WIND EROSION CONTROL	WE-1

(NOT ALL WILL BE GRAPHICALLY ILLUSTRATED WITHIN SITE MAPS)

CONSTRUCTION SITE STORM WATER PRIORITY: LOW

TITLE SHEET FOR: SIEMPRE VIVA & BRISTOW CREEK CHANNEL MAP No. 126 & 127					
CITY OF SAN DIEGO, CALIFORNIA TRANSPORTATION AND STORMWATER DEPARTMENT SHEET 1 OF 4 SHEETS					I.O. NO. _____ P.T.S. NO. _____
FOR CITY ENGINEER _____ DATE _____					V.T.M. _____
DESCRIPTION	BY	APPROVED	DATE	FILMED	XXXX-XXXX
ORIGINAL	REC				
					NAD83 COORDINATES
					XXX-XXXX LAMBERT COORDINATES
AS-BUILTS					
CONTRACTOR _____ DATE STARTED _____					-1-D
INSPECTOR _____ DATE COMPLETED _____					





3. ALL BEST MANAGEMENT PRACTICES (BMPs) WILL BE IMPLEMENTED PRIOR TO OR CONCURRENT WITH CONSTRUCTION AND MAINTAINED THROUGHOUT THE PROJECT. A QUALIFIED CONTACT PERSON WILL BE RESPONSIBLE FOR IMPLEMENTING THE WATER POLLUTION CONTROL PLAN (WPCP). ALL WORK SHALL BE COMPLETED BETWEEN SEPTEMBER 15TH AND FEBRUARY 15TH UNLESS AN EXTENSION IS GRANTED IN CONFORMANCE WITH ALL APPLICABLE PERMITS.
4. CONTRACTOR WILL LIMIT ALL CONSTRUCTION RELATED ACTIVITIES TO THE PROJECT FOOTPRINT.
5. EXISTING VEGETATION TO BE PRESERVED IN PLACE SHALL BE CLEARLY MARKED WITH A BUFFER AREA FOLLOWING THE GUIDANCE OF BMP FACT SHEET EC-2.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUCH ON STREETS AND OTHER PAVED SURFACES DUE TO EXCAVATION ACTIVITIES. STREET SWEEPING AND VACUUMING WILL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET SE-7.
7. WEATHER TRIGGERED ACTION PLAN SHALL BE IMPLEMENTED WHEN THERE IS A FORECASTED 50% OR GREATER CHANCE OF LIKELY PRECIPITATION OF 0.1 INCH OR GREATER BY THE NATIONAL WEATHER SERVICE FORECAST.
8. CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER AFTER EACH RUNOFF -PRODUCING RAINFALL.
9. TEMPORARY EROSION OR SEDIMENT CONTROL MEASURES WILL BE REMOVED UPON COMPLETION OF MAINTENANCE UNLESS THEIR REMOVAL WOULD RESULT IN GREATER ENVIRONMENTAL IMPACT THAN LEAVING THEM IN PLACE.
10. HAZARDOUS MATERIALS USED DURING MAINTENANCE WILL NOT BE STORED WITHIN 50 FEET FROM STORM WATER FACILITIES. HAZARDOUS MATERIALS SHALL BE MANAGED AND STORED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. A REGISTERED FIRST-RESPONSE, PROFESSIONAL HAZARDOUS MATERIALS CLEAN-UP/REMEDIATION SERVICE SHALL BE LOCALLY AVAILABLE ON CALL.
11. THE TREATMENT, STORAGE, AND DISPOSAL OF WASTEWATER DURING THE LIFE OF THE PROJECT MUST BE DONE IN ACCORDANCE WITH WASTE DISCHARGE REQUIREMENTS ESTABLISHED BY THE SAN DIEGO WATER BOARD PURSUANT TO CWC 13260.
12. SPILLS SHALL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET WM-4. SPILL CLEANUP MATERIALS SHALL BE AVAILABLE ONSITE AT ALL TIMES.
13. THE CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO EXTINGUISH SMALL BRUSH FIRES (FROM SPARKING VEHICLES, ETC.) ON-SITE DURING ALL PHASES OF PROJECT ACTIVITIES, ALONG WITH TRAINED PERSONNEL FOR USE OF SUCH EQUIPMENT.
14. THE CONTRACTOR SHALL MONITOR THE 5 DAY WEATHER FORECAST. IF ANY PRECIPITATION IS FORECASTED, THE SITE SHALL BE SECURED TO PREVENT ANY CONSTRUCTION RELATED MATERIALS FROM LEAVING THE SITE AND ENTERING THE CHANNELS. NO CONSTRUCTION ACTIVITIES SHALL OCCUR DURING RAIN EVENTS.
15. SAMPLING AND ANALYSIS, MONITORING AND REPORTING, AND POST-MAINTENANCE MANAGEMENT OF THE PROJECT SHALL BE CONDUCTED AS DETERMINED NECESSARY BY THE CITY OF SAN DIEGO.
16. CHANNELS WILL BE INSPECTED WITHIN 72 HOURS OF THE FIRST 2-YEAR STORM FOLLOWING MAINTENANCE. IF SUBSTANTIAL EROSION HAS OCCURRED, EROSION CONTROL MEASURES RECOMMENDED BY THE FIELD ENGINEER WILL BE IMPLEMENTED TO REMEDIATE EROSION AREAS AND TO MINIMIZE FUTURE EROSION.
17. CONTRACTOR SHALL PROVIDE TRAINING FOR ALL PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ONSITE BMPs.
18. THE QUALIFIED CONTACT PERSON WILL ASSIGN A MONITOR FOR DAILY INSPECTION OF THE BMPs EACH MORNING. THE MONITOR WILL CHECK THE NATIONAL WEATHER SERVICE FORECAST, COMPLETE BMP INSPECTION CHECKLIST, PERFORM ANY NECESSARY BMP MAINTENANCE/REPAIRS, AND REPORT THE RESULTS TO THE QUALIFIED CONTACT PERSON. COMPLETED INSPECTION CHECKLIST WILL BE KEPT WITH THE WPCP.
19. PREVIOUSLY UNDISTURBED STAGING AREAS WILL BE REVEGETATED WITHIN 30 DAYS OF COMPLETION OF MAINTENANCE ACTIVITIES. THE REVEGETATED AREAS WILL BE MONITORED FOR A PERIODS OF NOT LESS THAN 25 MONTHS AFTER PLANTING.
20. FINAL LOCATION OF CHANNEL CENTERLINE WILL BE DETERMINED IN THE FIELD AND COORDINATED WITH THE NECESSARY PROJECT SPECIALIST (BIOLOGIST, HISTORICAL MONITOR, ETC.)

FACILITY/CHANNEL	SIEMPRE VIVA & BRISTOW – MAP NO. 126 SIEMPRE VIVA & BRISTOW CT PARALLEL TO OTAY PACIFIC DR, ENDING AT SIEMPRE VIVA & BRITANNIA CT
DIMENSIONS	TRAPEZOIDAL EARTHEN CHANNEL 2320' LENGTH APPROX. 10'-25' TOP WIDTH VARIES 4'-8' BOTTOM WIDTH VARIES 5'-6' IN DEPTH 1'-3' OF SEDIMENT MAXIMUM CUBIC YARDS OF MATERIAL REMOVAL: 40,000
MAINTENANCE METHOD	MECHANIZED SEDIMENT & VEGETATION REMOVAL
EQUIPMENT(EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	<ul style="list-style-type: none"> <li>• GRADALL (5100 SERIES)</li> <li>• TRACK STEER (CAT 289D)</li> <li>• EXCAVATOR (CAT 349)</li> <li>• FRONT-END LOADER (CAT 966)</li> <li>• VACTOR</li> <li>• DUMP TRUCK(S) (12 YD)</li> <li>• 6" PUMPS OR SMALLER</li> <li>• TOW BEHIND CONCRETE MIXER</li> <li>• HAND TOOLS</li> </ul>
SCHEDULE	IN CHANNEL MAINTENANCE WILL TAKE APPROXIMATELY 30 DAYS- 6:00 AM TO 6:00 PM
STAFFING	10 TO 14 PEOPLE
MAINTENANCE PROCEDURE	
CHANNEL SEQUENCE	STATION 16+63.6 TO 39+40
ACCESS & LOADING AREA(S)	ACCESS AREA: (STATION 38+53.5) TRACK STEER DRIVES INTO CHANNEL VIA EARTHEN RAMP. LOADING AREA: (STATION 37+42.8) GRADALL/EXCAVATOR SITS ABOVE CHANNEL AT 1) 7599 BRISTOW CT, 2) 7598 BRITANNIA CT & DRAINAGE CHANNEL LOCATED AT 2745 OTAY PACIFIC DR, & LOADS TRUCKS.
STAGING & STOCKPILE AREA	EQUIPMENT AND TRUCKS WILL BE STAGED ON ASPHALT PAVED STREET AND ON EASEMENT AT 1) 7599 BRISTOW CT, 2) 7598 BRITANNIA CT & DRAINAGE CHANNEL LOCATED AT 2745 OTAY PACIFIC DR. ALL MATERIALS WILL BE HAULED IMMEDIATELY TO A LEGAL DISPOSAL SITE (MIRAMAR LANDFILL).
METHODOLOGY	<ol style="list-style-type: none"> <li>1. DRY WEATHER FLOW DIVERSION BERM (SANDBAGS/TIGER DAMS) &amp; DIVERSION PUMP(S) WILL BE PLACED AT WESTERN LIMITS OF CHANNEL CLEANING. DIVERSION PIPES WILL BE PLACED ON SOUTHERN SIDE OF THE CHANNEL AND EXTENDED TO A DISCHARGE AREA EAST OF THE PROJECT MAINTENANCE LIMITS.</li> <li>2. GRADALL/EXCAVATOR WILL ACCESS THE SIDE OF THE CHANNEL TRACK STEER ENTER/EXIT(S) CHANNEL AT ACCESS &amp; LOADING AREA(S).</li> <li>3. TRACK STEER PUSHES VEGETATION &amp; SEDIMENT TO GRADALL/EXCAVATOR, STATIONED OUTSIDE OF CHANNEL, WITHIN ACCESS &amp; LOADING AREA(S).</li> <li>4. EXCAVATOR/GRADALL SCOOPS MATERIAL &amp; LOADS MATERIAL INTO WAITING DUMP TRUCKS, LOCATED AT BOTTOM OF ACCESS RAMPS(S).</li> <li>5. DUMP TRUCKS HAUL MATERIAL TO LEGAL DISPOSAL SITE.</li> <li>6. TRACK STEER EXITS CHANNEL.</li> <li>7. VACTOR ALL HEADWALL OUTFALLS DISCHARGING INTO THE CHANNEL.</li> <li>8. NECESSARY CONCRETE REPAIRS WILL BE PERFORMED AT IDENTIFIED HEADWALLS AND OTHER DAMAGED AREAS.</li> <li>9. DRY WEATHER DIVERSION BERM, DIVERSION PUMP(S) &amp; HOSES REMOVED.</li> </ol>
POST-MAINTENANCE	<ol style="list-style-type: none"> <li>1. DEMOBILIZE EQUIPMENT</li> <li>2. REMOVE TEMPORARY CONSTRUCTION BMPs.</li> </ol>
OTHER NOTES	<ol style="list-style-type: none"> <li>1. SWEEPER SWEEPS ADJACENT PUBLIC RIGHTS-OF-WAY AND IMMEDIATE TRUCK LOADING SITES AT PROJECT'S COMPLETION.</li> <li>2. EQUIPMENT FUELED OUTSIDE CHANNEL &amp; LOCATED AT LEAST 150' FROM WATERS OF US/STATE.</li> <li>3. DEWATERING PUMP(S) MAY BE USED AT VARIOUS LOCATIONS TO REMOVE PONDED WATER PRIOR TO EQUIPMENT ENTERING THE CHANNEL. WATER WILL BE DISCHARGED JUST EAST OF THE PROJECT MAINTENANCE LIMITS.</li> <li>4. HANDWORK WILL BE PERFORMED IN AREAS WHERE THE CHANNEL WIDTH RESTRICTS THE USE OF MECHANIZED EQUIPMENT.</li> </ol>

FACILITY/CHANNEL	SIEMPRE VIVA & BISTOW - MAP NO. 127 SIEMPRE VIVA & BRISTOW CT TO MAP 126
DIMENSIONS	TRAPEZOIDAL EARTHEN CHANNEL 600' LENGTH APPROX. 10'-25' TOP WIDTH 4' BOTTOM WIDTH 6' IN DEPTH 1'-3' OF SEDIMENT MAXIMUM CUBIC YARDS OF MATERIAL REMOVAL: 2,500
MAINTENANCE METHOD	MECHANIZED SEDIMENT & VEGETATION REMOVAL
EQUIPMENT(EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	<ul style="list-style-type: none"> <li>• GRADALL (5100 SERIES)</li> <li>• TRACK STEER (CAT 289D)</li> <li>• EXCAVATOR (CAT 349)</li> <li>• FRONT-END LOADER (CAT 966)</li> <li>• VACTOR</li> <li>• DUMP TRUCKS(S) (12 YD)</li> <li>• 6<math>\frac{1}{2}</math>" PUMPS OR SMALLER</li> <li>• TOW BEHIND CONCRETE MIXER</li> <li>• HAND TOOLS</li> </ul>
SCHEDULE	IN CHANNEL MAINTENANCE WILL TAKE APPROXIMATELY 45 DAYS- 6:00 AM TO 6:00 PM
STAFFING	10 TO 14 PEOPLE
MAINTENANCE PROCEDURE	
CHANNEL SEQUENCE	STATION 10+00 TO 16+63.6
ACCESS & LOADING AREA(S)	ACCESS AREA: (STATION 10+31 AND 16+67.4) TRACK STEER DRIVES INTO CHANNEL VIA EARTHEN RAMP. LOADING AREA: (STATION 11+86 AND 14+83.8) GRADALL/EXCAVATOR SITS ABOVE CHANNEL AT 7525 BRISTOW CT & IN FRONT OF 7560 BRISTOW CT, AND LOADS TRUCKS.
STAGING & STOCKPILE AREA	EQUIPMENT AND TRUCKS WILL BE STAGED ON ASPHALT PAVED STREET AND ON EASEMENT AT 7525 BRISTOW CT & INFRONT OF 7560 BRISTOW CT. ALL MATERIALS WILL BE HAULED IMMEDIATELY TO A LEGAL DISPOSAL SITE (MIRAMAR LANDFILL).
METHODOLOGY	<ol style="list-style-type: none"> <li>1. DRY WEATHER FLOW DIVERSION BERM (SANDBAGS/TIGER DAMS) &amp; DIVERSION PUMP(S) WILL BE PLACED AT WESTERN LIMITS OF CHANNEL. CLEANING, DIVERSION PIPES WILL BE PLACED ON SOUTHERN SIDE OF THE CHANNEL AND EXTENDED TO A DISCHARGE AREA EAST OF THE PROJECT MAINTENANCE LIMITS.</li> <li>2. GRADALL/EXCAVATOR WILL ACCESS THE SIDE OF THE CHANNEL TRACK STEER ENTER/EXIT(S) CHANNEL AT ACCESS &amp; LOADING AREA(S).</li> <li>3. TRACK STEER PUSHES VEGETATION &amp; SEDIMENT TO GRADALL/EXCAVATOR, STATIONED OUTSIDE OF CHANNEL, WITHIN ACCESS &amp; LOADING AREA(S).</li> <li>4. EXCAVATOR/GRADALL SCOOPS MATERIAL &amp; LOADS MATERIAL INTO WAITING DUMP TRUCKS, LOCATED AT BOTTOM OF ACCESS RAMP(S).</li> <li>5. DUMP TRUCKS HAUL MATERIAL TO LEGAL DISPOSAL SITE.</li> <li>6. TRACK STEER EXITS CHANNEL.</li> <li>7. VACTOR ALL HEADWALL OUTFALLS DISCHARGING INTO THE CHANNEL.</li> <li>8. NECESSARY CONCRETE REPAIRS WILL BE PERFORMED AT IDENTIFIED HEADWALLS AND OTHER DAMAGED AREAS.</li> </ol> <p>DRY WEATHER DIVERSION BERM, DIVERSION PUMP(S) &amp; HOSES REMOVED.</p>
POST-MAINTENANCE	<ol style="list-style-type: none"> <li>1. DEMOBILIZE EQUIPMENT</li> <li>2. REMOVE TEMPORARY CONSTRUCTION BMPS.</li> </ol>
OTHER NOTES	<ol style="list-style-type: none"> <li>1. SWEEPER SWEEPS ADJACENT PUBLIC RIGHTS-OF-WAY AND IMMEDIATE TRUCK LOADING SITES AT PROJECT'S COMPLETION.</li> <li>2. EQUIPMENT FUELED OUTSIDE CHANNEL &amp; LOCATED AT LEAST 150' FROM WATERS OF US/STATE. DEWATERING PUMPS) MAY BE USED AT VARIOUS LOCATIONS TO REMOVE PONDED WATER PRIOR TO EQUIPMENT ENTERING THE CHANNEL. WATER WILL BE DISCHARGED JUST EAST OF THE PROJECT MAINTENANCE LIMITS.</li> </ol>

CARSON P. EDGINGTON	R.C.E. 76519	DATE
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SIEMPRE VIVA & BRISTOW CREEK CHANNEL  
MAP No. 126 & 127

CITY OF SAN DIEGO, CALIFORNIA TRANSPORTATION AND STORMWATER DEPARTMENT SHEET 3 OF 4 SHEETS					I.O. NO. _____ P.T.S. NO. _____
_____ FOR CITY ENGINEER _____ DATE _____					V.T.M. _____
DESCRIPTION	BY	APPROVED	DATE	FILMED	_____ XXXX-XXXX NAD83 COORDINATES  XXX-XXXX LAMBERT COORDINATES  -3-D
ORIGINAL	REC				
AS-BUILTS					
CONTRACTOR _____			DATE STARTED _____		
INSPECTOR _____			DATE COMPLETED _____		



5620 FRIARS ROAD  
SAN DIEGO, CA 92110  
619.291.0707  
(FAX)619.291.4165

J-17204-L

rickengineering.com

San Diego      Riverside • Orange • San Luis Obispo • Bakersfield • Sacramento • Phoenix • Tucson

\\N17204-L-T039-IHHA-FY17\\5-Siempre Viva & Bristow Map 126, 127\\Civil\\Sheets\\17204L-SiempreViva\_Bristow03.dgn  
\\N17204-L-T039-IHHA-FY17\\5-Siempre Viva & Bristow Map 126, 127\\Civil\\Sheets\\SD CorpStds 2005.dscrp1  
16-MAY-2017 07:57

1. BIO-1: RESTRICT VEHICLES TO ACCESS DESIGNATED IN THE MMP.

- ## PEIR ENVIRONMENTAL MITIGATION MEASURES

## ADDITIONAL MAINTENANCE REQUIREMENTS

- RICK**  
ENGINEERING COMPANY
- 5620 FRIARS ROAD  
SAN DIEGO, CA 92110  
619.291.0707  
(FAX) 619.291.4165
- J-17204-L
- [rickengineering.com](http://rickengineering.com)
- Alhambra • Riverside • Chgo • San Luis Obispo • Bakersfield • Sacramento • Phoenix • Tucson  
LA • Long Beach • Inland • FTTT'S • Tempe • Vgo & B'rowm Map 126, 127.CivIl/IV/SpeaRt17204-L, Tempe/IVgo, B'rowm204, g  
2017, 07/58, 127.CivIl/IV/SpeaRt17204-L, Tempe/IVgo, B'rowm204, g



<b>MASTER MAINTENANCE PROGRAM (MMP) PROTOCOL REQUIREMENTS AND          PEIR ENVIRONMENTAL MITIGATION MEASURES:</b>				
<b>SIEMPRE VIVA &amp; BRISTOW CREEK CHANNEL</b> <b>MAP No. 126 &amp; 127</b>				
<b>CITY OF SAN DIEGO, CALIFORNIA</b> <b>TRANSPORTATION AND STORMWATER DEPARTMENT</b> <b>SHEET 4 OF 4 SHEETS</b>				I.O. NO. _____ P.T.S. NO. _____
_____ DATE _____ FOR CITY ENGINEER				V.T.M. _____
<b>DESCRIPTION</b>	<b>BY</b>	<b>APPROVED</b>	<b>DATE</b>	<b>FILMED</b>
ORIGINAL	REC			
AS-BUILTS				
CONTRACTOR _____			DATE STARTED _____	
INSPECTOR _____			DATE COMPLETED _____	
<div style="display: flex; justify-content: space-between;"> <span>XXXX-XXXX NAD83 COORDINATES</span> <span>XXXX-XXXX LAMBERT COORDINATES</span> </div> <div style="text-align: right; font-size: 2em; font-weight: bold; margin-top: 10px;">-4-D</div>				